Hi tayfun,
Hector Labr on AGATA frame were farer from target than AGATA crystals, as regards y axis if I compare the image of the three axes in the document I think that everything that is between the target and the LYCCA-wall has to have positive $y$ values. As regards $r$ it is consistent with the position of frontal face.
As regards theta, may I ask you to attach the theta values of HECTOR position you have? thanks

Riccardo

